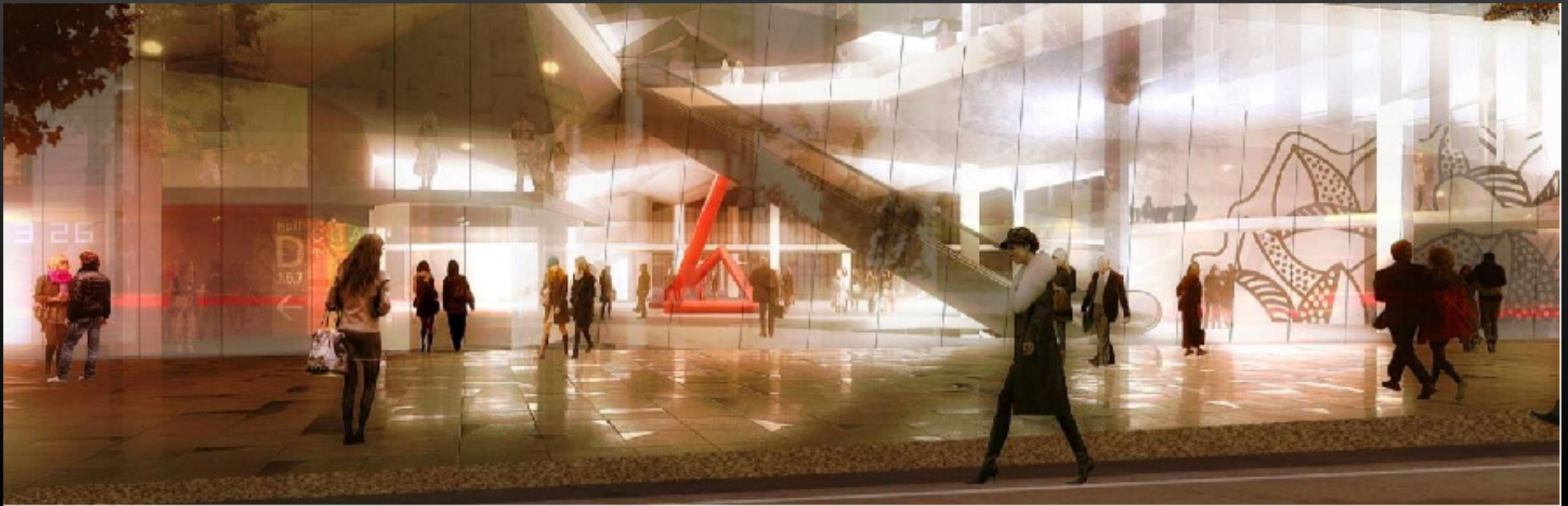


The Library Catalogue as Linked Open Data - How to Do It and What to Do with It



Speakers: Asgeir Rekkavik and Benjamin Rokseth
Oslo Public Library/Deichmanske bibliotek, Norway
SWIB 2012 - Cologne 26.-28.Nov 2012



Tim Berners-Lee:

Some people have said, "Why do I need the Semantic Web? I have Google!" Google is great for helping people find things, yes! But finding things more easily is not the same thing as using the Semantic Web. It's about creating things from data you've compiled yourself, or combining it with volumes (think databases, not so much individual documents) of data from other sources to **make new discoveries**.

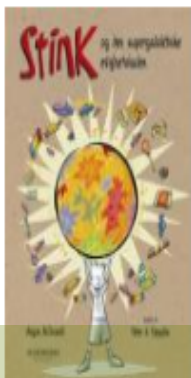
Consortium Standards Bulletin > Juni 2005

<http://www.consortiuminfo.org/bulletins/semanticweb.php>

Two New Library Services

- based on semantic data**

« Første ‹ Forrige ... 46 47 48 ... Neste › Siste »



Stink og den supergalaktiske evighetskulen

Stink og den supergalaktiske evighetskulen

Megan McDonald

STINK i MEGAN MCDONALD's bok er lillebroren til Judy Moody. Han er i godteributikken for å kjøpe snop.



Frosker, kyss og falske prinser

Frosker, kyss og falske prinser

Sarah Mlynowski

Hvis man godtar tanken på at det finnes magi og heksekunster, er dette en underholdende bok.

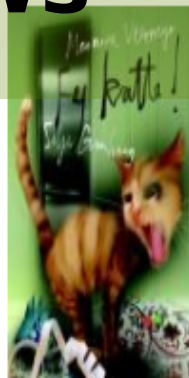
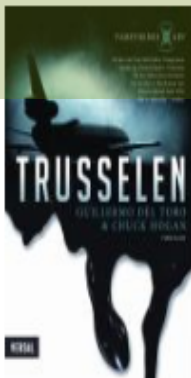
Book Reviews

Trusselen

Trusselen

Guillermo del Toro, Chuck Hogan

Lei av romantiske vampyrer?



Fy katte!

Fy katte!

Marianne Viermyr

Det er bursdagsfrokost i heimen, - lillebror er 5 år. Storesøster Selma har 1 time alene hjemme sammen med katten før 1.

48 Rue Defacqz

48 rue Defacqz

Hanne Ørstavik

Rakel og Paul er tvillinger og bor i Paris der de livnærer seg som maler og arkitekt.



After dark

After dark

Haruki Murakami

Det er natt i Tokio.

MINE ANBEFALINGER

[i Om bokanbefalinger](#)

OSLO.KOMMUNE.NO

TJENESTER

SKJEMAER

BYDELER

ETATER OG F



OSLO KOMMUNE Deichmanske bibliotek

DEICHMANSKE
BIBLIOTEK

DEICHMAN
blogg LITTERATUR

Denne månedens bok

Månedens bok – arkiv

Lesesirkler

Du er her: [Oslo kommune](#) > [Deichmanske bibliotek](#) > [Litteratur](#) > Månedens bok

Deichmanske bibliotek

Aktuelt

DEICHMAN
blogg MUSIK

NYHETER INTERVJU ARTIKLER MUSIKKVIDE

DIAMOND CLUB BOW TO EACH OTHER

Posted by [Victor Josefsen](#) on onsdag, november 21,

Liker

7

Tweet

0



Følg oss på Facebook

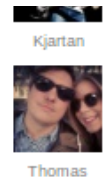
Deichmanske



EMBER 2012

ortal Instruments: City Of

Endelig er det sluppet trailer for filmen basert på *City of Bones*, som er første bok i serien *Mortal instruments* skrevet av Cassandra Clare. På norsk heter serien *Skyggegjegerne* og første bok er *Demonenes by*. Hovedpersonen i bok og film er Clary Fray (spilles av Lily Collins) som bor i New York. Hun tror hun er en helt vanlig 15-åring, men hun tar ganske så feil...Det starter en kveld på nattklubben Pandemonium,



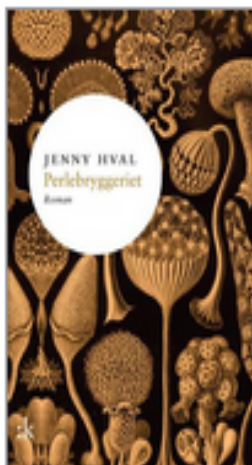
Select 10 latest reviews of slim novels for adults:

```
SELECT ?review WHERE {  
  GRAPH <http://data.deichman.no/reviews> {  
    ?review a rev:Review ;  
    dct:subject ?work ;  
    dct:issued ?date .  
  }  
  GRAPH <http://data.deichman.no/books> {  
    ?work a fabio:Work ;  
    fabio:hasManifestation ?book .  
    ?book a bibo:Document ;  
    deichman:literaryFormat dbpedia:Fiction ;  
    dct:audience audience:adult ;  
    bibo:numPages ?pages .  
  }  
  FILTER (xsd:int(?pages) < 200) }}  
ORDER BY DESC(?date)  
LIMIT 10
```


RSS-lenke du kan legge inn på din egen blogg/nettside eller abonnere på i din RSS-leser

http://anbefalinger.deichman.no:80/feed?query_id=query_6&title=Tynne bøker

Tynne bøker



Dampande roman!

Perlebryggeriet

Jenny Hval

Fantastisk fabulerande om søkande jente, kjønnsoverskridande, spanande!



Mørke veikryss og en pose med poteter

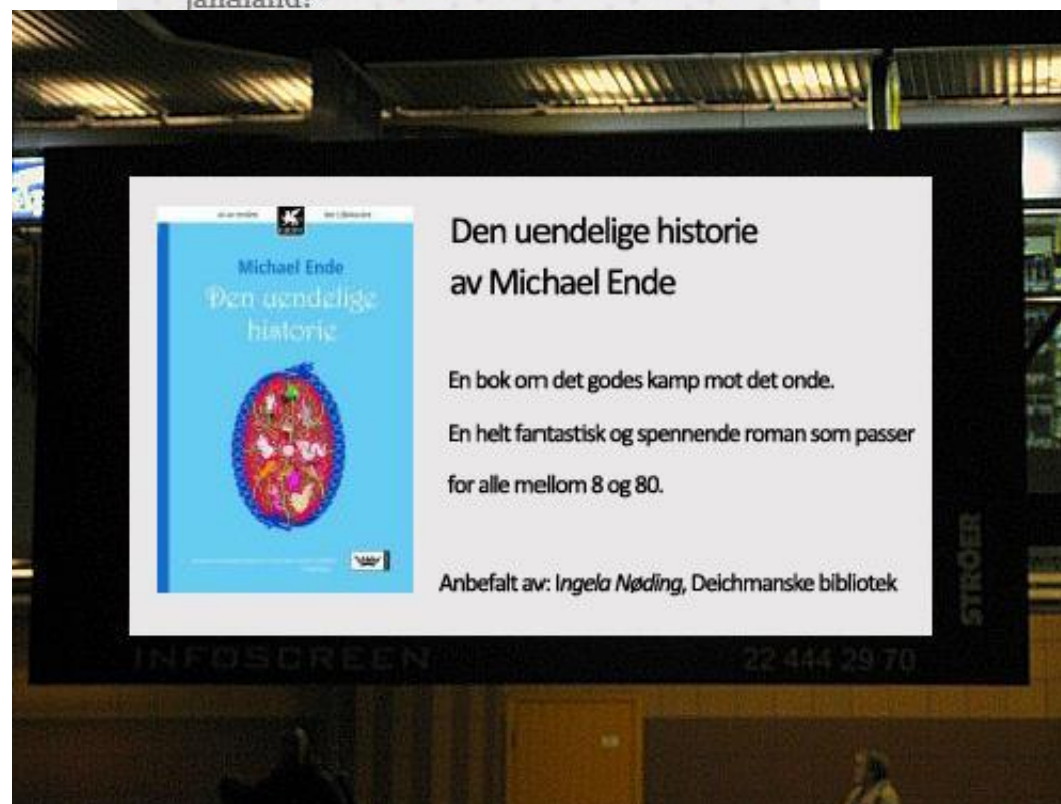
Hva er det med mor

Vigdis Hjorth

"Hva slags mor har du egentlig?" Det spør Niklas Mari om. For Maris mor skulle levere tilbake en lånt genser til søsteren hans.

RECOMMENDED FANTASYBOOKS FOR YOUNG ADULTS

Janaland - janaland - si meg, hvor er
• janaland?



Den uendelige historie
av Michael Ende

En bok om det godes kamp mot det onde.
En helt fantastisk og spennende roman som passer
for alle mellom 8 og 80.

Anbefalt av: Ingela Nøding, Deichmanske bibliotek

22 444 29 70

RECOMMENDED BOOKS ON CULTURAL DIVERSITIES



Bokanbefalinger

Den uendelige historie
av Michael Ende

En bok om det godes kamp mot det onde.
En helt fantastisk og spennende roman som
passer for alle mellom 8 og 80.
Michael Ende (1928-1995) sin roman "Den
uendelige historie" kom ut i 1979. Mange har
uttrykt tvil: Wolfgang Petersens filmatisering av
den uendelige historie kom i 1984, men filmen

• Snømannen



Active Shelves

NYSGJERRIG?

Ta med
boka hi

Review



By same
author



Similar
books



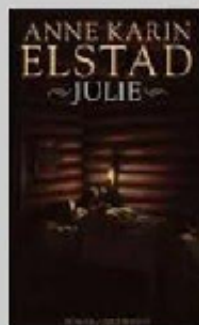
1

History

Rohinton Mistry
Balanseskunst



Anne Karin Elstad
Julie



John Fante
Sperstøvet



Thomas Mann
Doktor Faustus



The Semantic Approach

- How to Do It



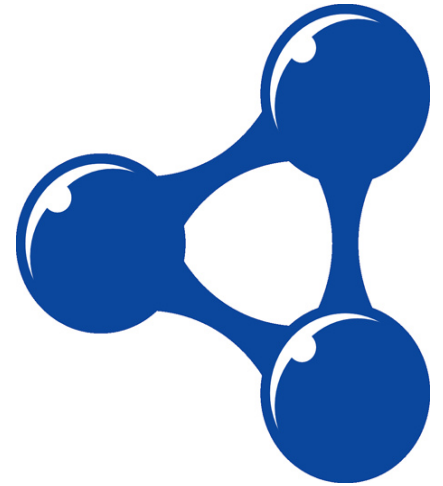
google refine

+

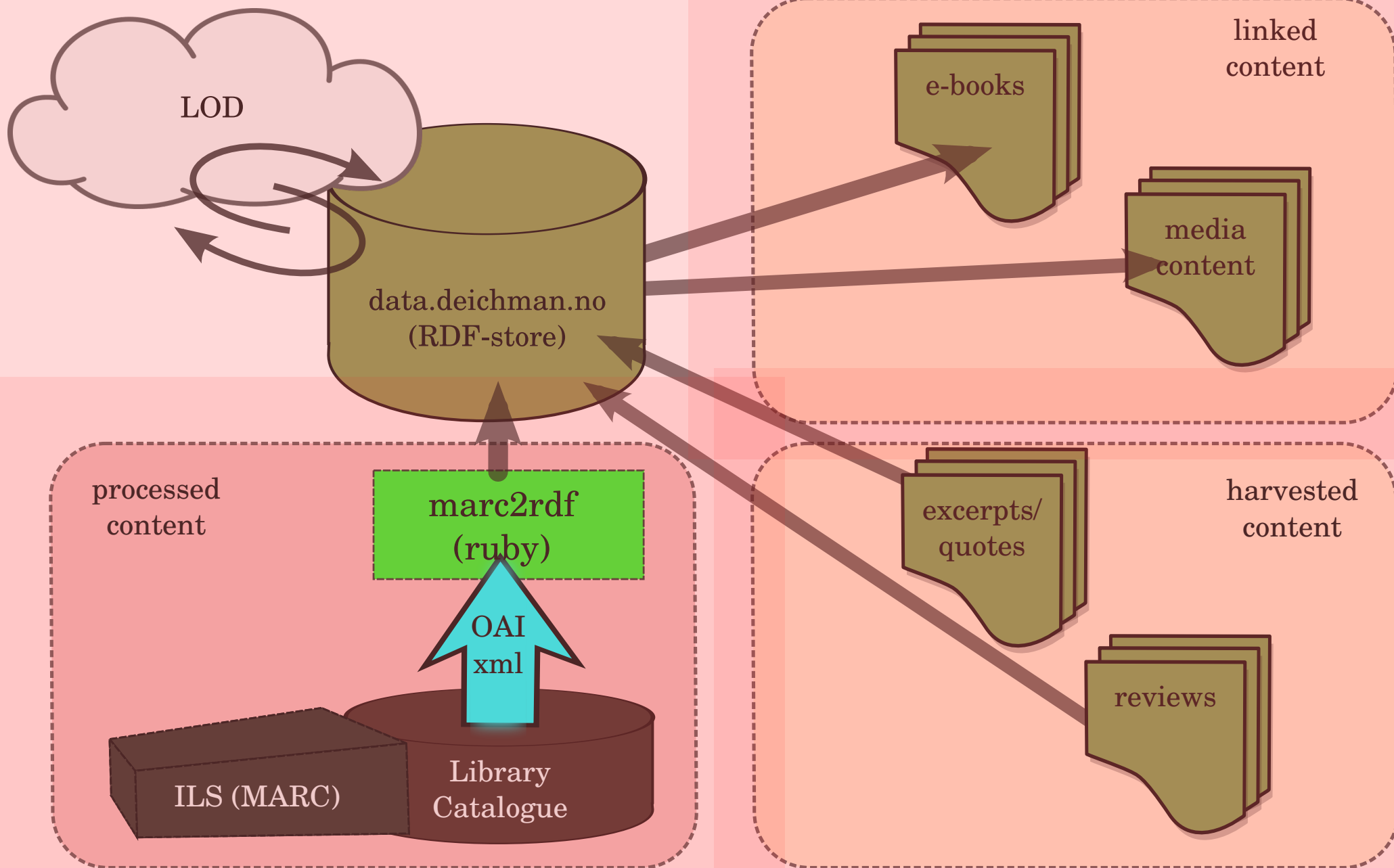


ruby language

+



RDF



Virtuoso SPARQL Query Editor

Default Data Set Name (Graph IRI)

Query Text

```
select distinct ?Concept where {[] a ?Concept} LIMIT 100
```

programmers are lazy!

Sponging:

Use only local data (including data retrieved before), but do not retrieve more ▼

Results Format:

HTML ▼

Execution timeout:

0 milliseconds (*values less than 1000 are ignored*)

Options:

☒ Strict checking of void variables

(The result can only be sent back to browser, not saved on the server, see [details](#))

Run Query

Reset

To be Linked Open Data we need de-referencable URIs

tnr_1025052 at data.deichman.no

http://data.deichman.no/resource/tnr_1025052



Property	Value
?:audience	▪ < http://data.deichman.no/audience/adult >
?:bibliofiliID	▪ 1085273
?:bindingInfo	▪ < http://data.deichman.no/bindingInfo/h >
?:bioContent	▪ < http://data.deichman.no/bioContent/nonBiography >
?:cataloguingDate	▪ 100610
?:creator	▪ < http://data.deichman.no/person/x10477300 >
?:depiction	▪ < http://covers.openlibrary.org/b/id/1002396-M.jpg >
?:edition	▪ 24. Aufl.
?:format	▪ < http://data.deichman.no/format/Book >
is ?::hasManifestation of	▪ < http://data.deichman.no/work/x10477300_gruppenbild_mit_dame >
?:identifier	▪ 1025052
?:isManifestationOf	▪ < http://data.deichman.no/work/x10477300_gruppenbild_mit_dame >
?:isPartOf	▪ < http://data.deichman.no/series/x14927600 >
?:isbn	▪ 3423009594 ▪ 9783423009591
?:issued	▪ 2010
?:language	▪ < http://lexvo.org/id/iso639-3/ger >
?:literaryFormat	▪ < http://dbpedia.org/resource/Fiction > ▪ < http://dbpedia.org/resource/Novel >

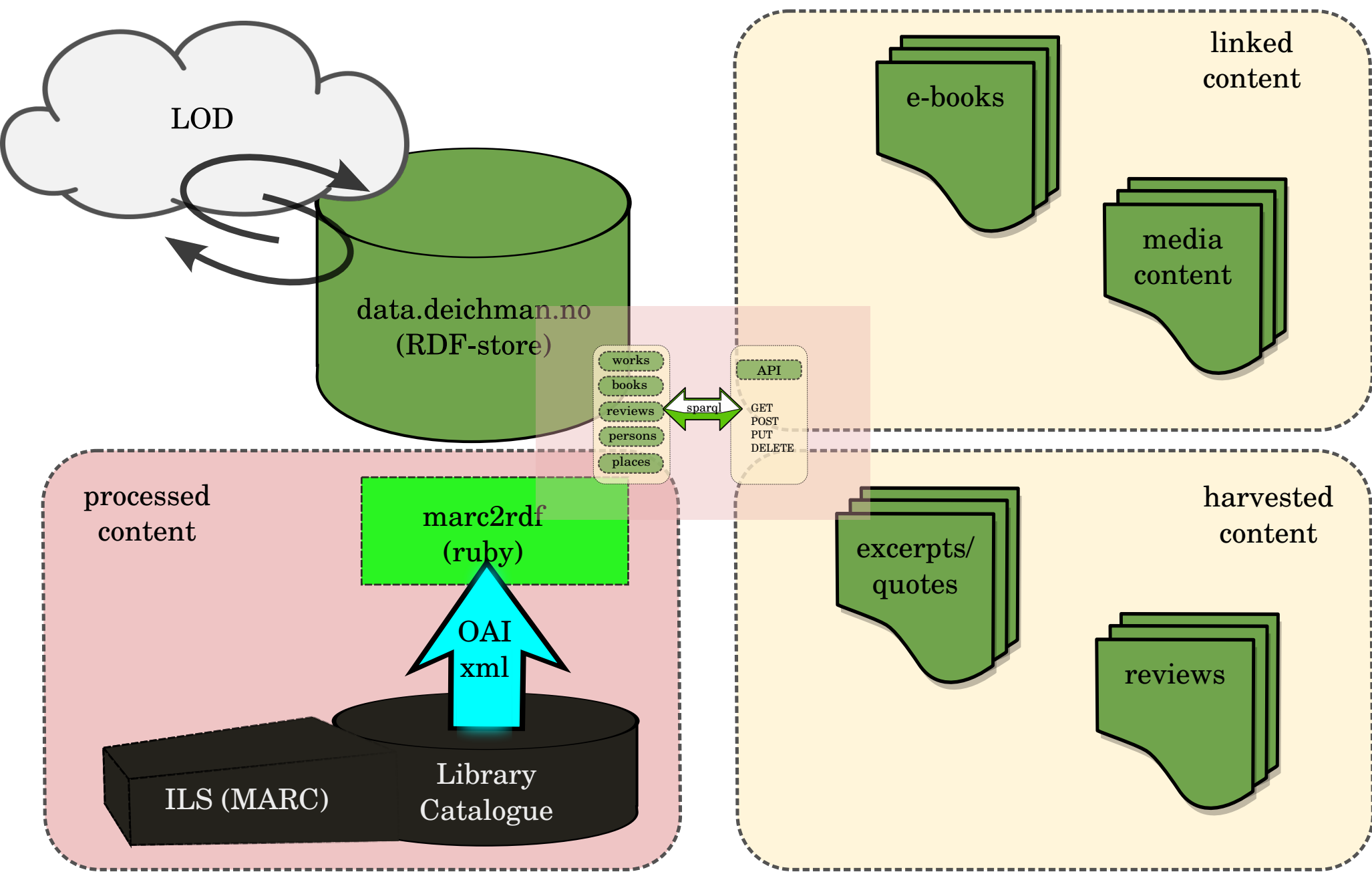
<http://www.w3.org/2001/sw/wiki/Pubby>

Application Programming Interface

generic web endpoints made to address concrete issues

standardization

needs to simplify complex models



```
http GET http://data.deichman.no/api/reviews
author="Knut Hamsun"
```

```
=> { "work" :
      "title": "Sult",
      "author": "Knut Hamsun",
      "isbn": "9645881110,9979531517...",
      "cover": "http://covers.com/x3535235",
      "reviews": [
        {
          "review_title": "A Hungry Soul",
          "review_abstract": "This is a book you
will never forget.",
          "review_text": "A long, long, time ago...
in a fallacy far, far away...etc."
        }
      ]
    }
```

Create review

```
http POST http://data.deichman.no/api/reviews
  isbn="9979531517" api_key="dummy" title="My review"
  teaser="You need to see this" text="And then I..."

=> "review_id/uri": "http://reviews.com/x12345678"
```

Read review

```
http GET http://data.deichman.no/api/reviews
  isbn="9979531517"
```

Update review

```
http PUT http://data.deichman.no/api/reviews
  api_key="dummy" uri="http://reviews.com/x12345678"
  text="I forgot to mention..."
```

Delete review

```
http DELETE http://data.deichman.no/api/reviews
  api_key="dummy" uri="http://reviews.com/x12345678"
```

<http://github.com/digibib/data.deichman.no.api>

Mapping

Take everything! The old
Are we really in a way
Perfectly healthy to lagood
Do we really need to lagood
stuff with copies of it? self?
Any objections?

* 700 \$a King, Stephen
\$d 1947-
\$j am.
\$e aut.
\$t Rita Hayworth and the
Shawshank Redemption

What does it mean?

* 100 0 \$a Hamsun, Knut
\$d 1859-1952
\$j n.
\$3 12276900

* 100 0 \$a Hamsun, Knut
\$d 1859-1952
\$j n.
\$3 12276900

* 245 10 \$a Sult
\$c Knut Hamsun

* 240 10 \$a Sult

* 245 10 \$a Hunger
\$b Roman
\$c neue berechtigte Übers.
von J. Sandmeier

* 260 \$a Oslo
\$b Gyldendal
\$c 1981

* 260 \$a München
\$b Langen/Müller
\$c 1921

```

554         predicate: DC.identifier
555         object:
556             datatype: literal
557
558     '240':
559         subfield:
560             a:
561                 conditions:
562                     indicator:
563                         default: DEICHMAN.originalTitle
564                     indicator1:
565                         orig: '0|1'
566                     subs:
567                         ? "0"
568                         : DEICHMAN.uniformTitle
569                         ? "1"
570                         : DEICHMAN.originalTitle
571                 object:
572                     regex_strip: '[\.:,;\./\s]\s*$'
573                     datatype: literal
574
575     '240|240':
576         subfield:
577             a:

```



```

INSERT INTO GRAPH <http://data.deichman.no/books> {
    `iri(bif:concat("http://data.deichman.no/work/x", ?id,
        "_", str(?originalTitleURLized)))`
    a fabio:Work ;
    dct:title ?originalTitle ;
    dct:creator ?creator ;
    fabio:hasManifestation ?book .
    ?book a fabio:Manifestation ;
    fabio:isManifestationOf
        `iri(bif:concat("http://data.deichman.no/work/x",
            ?id, "_", str(?originalTitleURLized)))` .
} WHERE {
    GRAPH <http://data.deichman.no/books> {
        ?book a bibo:Document ;
            deichman:originalTitle ?originalTitle ;
            deichman:originalTitleURLized ?
originalTitleURLized ;
            dct:creator ?creator .
            ?creator dct:identifier ?id .
    }
}

```

PREFIX fabio: <<http://purl.org/spar/fabio/>>
PREFIX dct: <<http://purl.org/dc/terms/>>
PREFIX work: <<http://data.deichman.no/works/>>
PREFIX person: <<http://data.deichman.no/person/>>
PREFIX resource: <<http://data.deichman.no/resource/>>
PREFIX rev: <<http://purl.org/stuff/rev#>>

work:x12276900_sult a fabio:Work ;
 dct:title "Sult" ;
 dct:creator person:x12276900 ;
 bibo:isbn "8205205469", "8252521541", "9788281787322",
 "02285647288", "9789543302772" ;
 fabio:hasManifestation resource:tnr_852053, resource:tnr_671080,
 resource:tnr_581189, resource:tnr_876322 ;
 rev:hasReview <<http://reviews.com/x12345678>> .

What to Do With It?

- Refining Data**

reconcile:

lat.: "to bring together (again)"

Noise!

Example:

- marc 651, intended as Geographical Place as Subject, but largely unused, whereas *real* geographic subjects are put into 650, which in the conversion is used to generate skos:Concept



Extract 500 subjects with labels:

```
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
SELECT DISTINCT ?subject ?dewey ?label
WHERE {
    ?subject a skos:Concept ;
        skos:notation ?dewey ;
        skos:prefLabel ?label .
} LIMIT 500
```

Noise!

http://data.deichman.no/subject/flyktningbarn_fra_rwanda	305.23	"Flyktningbarn - Fra Rwanda"@no
http://data.deichman.no/subject/flyktningbarn_fra_somalia	305.23	"Flyktningbarn - Fra Somalia"@no
http://data.deichman.no/subject/suttekluter_billedboeker	649.6	"Suttekluter - Billedbøker"@no
http://data.deichman.no/subject/storbritannia_skuespill	942.1	"Storbritannia - Skuespill"@no
http://data.deichman.no/subject/nord-amerika_oppdagelser	970.01	"Nord-Amerika - Oppdagelser"@no
http://data.deichman.no/subject/danseband_fortellinger	784.4	"Danseband - Fortellinger"@no
http://data.deichman.no/subject/smaabysamfunn_fortellinger	307.76	"Småbysamfunn - Fortellinger"@no
http://data.deichman.no/subject/tall_fjernsynsserier	513	"Tall - Fjernsynsserier"@no
http://data.deichman.no/subject/kreativitet_laereboeker	153.3	"Kreativitet - Lærebøker"@no
http://data.deichman.no/subject/x2046552300	792.028092	"Skuespillere - Kvinner"@no
http://data.deichman.no/subject/spania_historie_1931-	946.08	"Spania - Historie 1931-"@no
http://data.deichman.no/subject/x2046562900	909.0494	"Kurdi"@no

Throw the (un)structured data into the Refinery:

Google refine A power tool for working with messy data.

Create Project

Open Project

Import Project

« Start Over

Configure Parsing Options

29.	http://data.deichman.no/subject/ai_wciwei	709.2	AI, Wciwei
30.	http://data.deichman.no/subject/valper_spillefilmer	636.707	Valper - Spillefilmer
31.	http://data.deichman.no/subject/faglitteratur_internett_litteraere_virkemidler	808.066	Faglitteratur - Internett - litterære virkemidler
32.	http://data.deichman.no/subject/suttokluter_billedboker	649.6	Suttokluter Billedbøker
33.	http://data.deichman.no/subject/storbritannia_skuespill	942.1	Storbritannia - Skuespill
34.	http://data.deichman.no/subject/nord-amerika_oppdagelser	970.01	Nord-Amerika - Oppdagelser
35.	http://data.deichman.no/subject/danseband_fortellinger	784.4	Danseband Fortellinger
36.	http://data.deichman.no/subject/smaabysamfunn_fortellinger	307.76	Småbysamfunn - Fortellinger
37.	http://data.deichman.no/subject/tall_fjernsynsserier	513	Tall - Fjernsynsserier
38.	http://data.deichman.no/subject/kreativitet_laereboker	153.3	Kreativitet Lærebøker
39.	http://data.deichman.no/subject/x2046552300	792.028092	Skuespillere - Kvinner - Biografi
40.	http://data.deichman.no/subject/spania_historie_1931-	946.08	Spania - Historie 1931-
41.	http://data.deichman.no/subject/Multilingual/x2046558900	294.34	Meditasjon, Buddhistisk
42.	http://data.deichman.no/subject/x2046559800	704.949	Vampyrer - Motiv - Kunst
43.	http://data.deichman.no/subject/Multilingual/x2046560700	231.7	Mirakler - kristendom
44.	http://data.deichman.no/subject/x2046568600	779.2	Portretter Hjemløse Fotografier
45.	http://data.deichman.no/subject/hjemloese_sosial_velferd	362.50973	Hjemløse - sosial velferd
46.	http://data.deichman.no/subject/hjemloese_fotografisamlinger	779.2	Hjemløse - Fotografisamlinger
47.	http://data.deichman.no/subject/overnaturlige_vesener_fortellinger	398.45	Overnaturlige vesener Fortellinger
48.	http://data.deichman.no/subject/x2046747500	779.4	Haugesund - Fotografier
49.	http://data.deichman.no/subject/x2046549200	320.54	Antislamisme - Politiske ideologier
50.	http://data.deichman.no/subject/mazzardla_mereto	839.73	Mazzarella, Mereto
51.	http://data.deichman.no/subject/ohanlon_redmond	828	O'Hanlon, Redmond
52.	http://data.deichman.no/subject/reiser_i_litteraturen_litteraturhistorie	809.9	Reiser i litteraturen - litteraturhistorie
53.	http://data.deichman.no/subject/x2046750000	956.91	Syria Samfunnsforhold Personlige beretninger
54.	http://data.deichman.no/subject/yazbek_samar	956.91	Yazbek, Samar
55.	http://data.deichman.no/subject/breivik_anders_behring	303.62	Breivik, Anders Behring
56.	http://data.deichman.no/subject/x2046747400	344.01	Arbeidstvister norsk arbeidsrett
57.	http://data.deichman.no/subject/arbeidstvister_norsk_arbeidsrett	344.01	Arbeidstvister - norsk arbeidsrett
58.	http://data.deichman.no/subject/ibsen_henrik_spoerreboeker	839.822	Ibsen, Henrik - Spørrebøker
59.	http://data.deichman.no/subject/boe_nordland_fortellinger	940.4462	Bø - Nordland - Fortellinger

...apply a reconciliation service

Add SPARQL-based reconciliation service

Name:
A human readable name

Endpoint details

Endpoint URL:

Graph URI:
Leave empty to use the default graph

Type:
This determines the syntax that will be used for search

Label properties
Select properties that are used to label resources in the endpoint. These properties will be used to match resources:

☒ rdfs:label ☐ skos:prefLabel ☐ dcterms:title
☐ dc:title ☐ foaf:name
☐ Other...

OK Cancel

reconcile against DBpedia and a geographical property: dbo:PopulatedPlace

Reconcile column "geoname"

Freebase Query-based Reconciliation ☐

Freebase Reconciliation Service ☐

Sindice ☐

dbpedia ☐

Reconcile each cell to an entity of one of these types:

- ☐ owl:Thing
http://www.w3.org/2002/07/owl#Thing
- ☐ dbo:Place
http://dbpedia.org/ontology/Place
- ☐ schema:Place
http://schema.org/Place
- ☒ **dbo:PopulatedPlace**
http://dbpedia.org/ontology/PopulatedPlace
- ☐ gml:_Feature
http://www.opengis.net/gml/_Feature
- ☐ skos:Concept
http://www.w3.org/2004/02/skos/core#Concept
- ☐ dbo:Work
http://dbpedia.org/ontology/Work
- ☐ dbo:Town
http://dbpedia.org/ontology/Town

Also use relevant details from other columns:

Column Include?	As Property
book	☐
title	☐

☐ Reconcile against type:

☐ Reconcile against no particular type

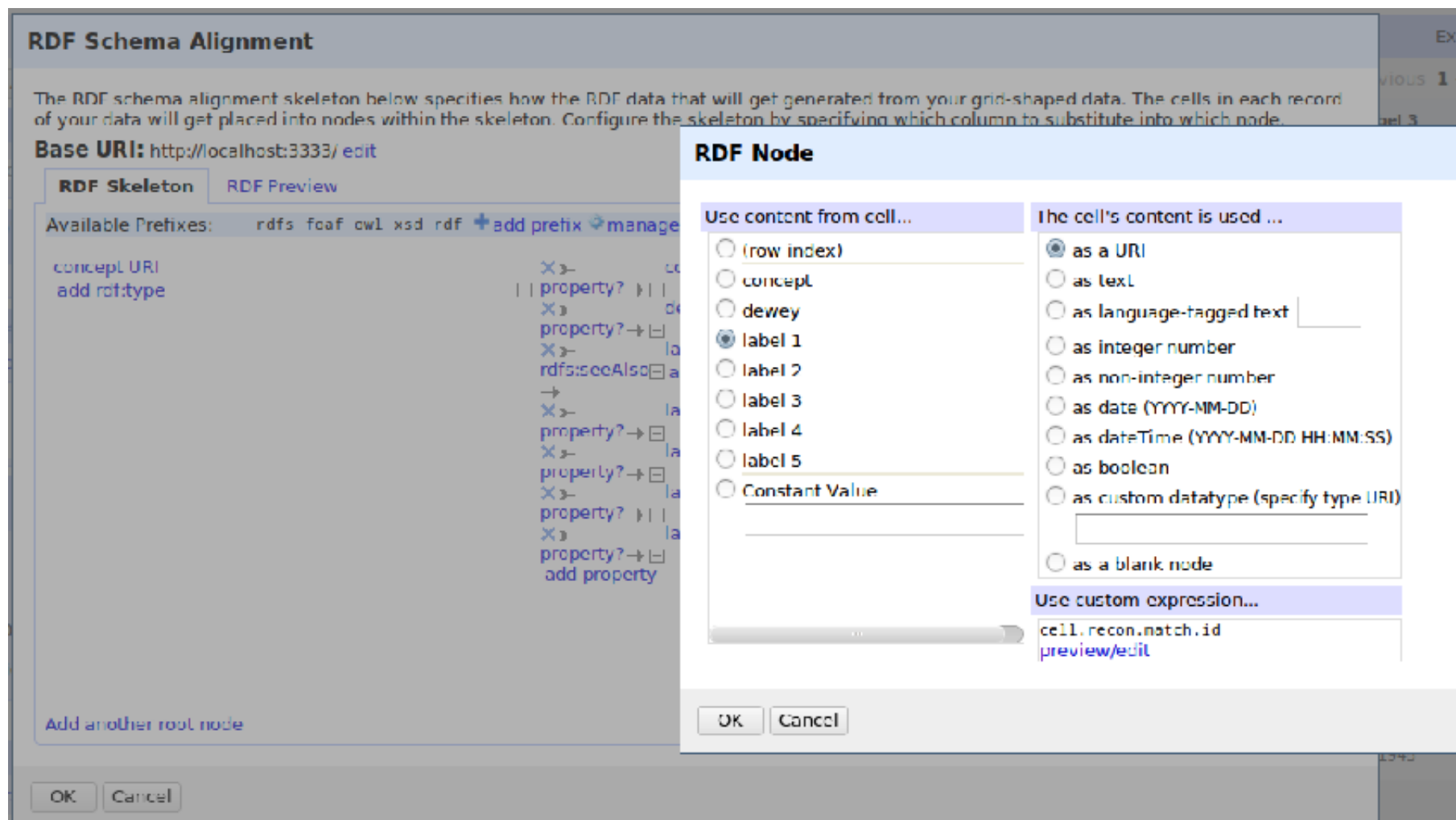
☒ Auto-match candidates with high confidence

Add Standard Service... Add Namespaced Service... Start Reconciling Cancel

...and you have a connected subset

107 matching rows (500 total)					
Show as: rows records Show: 5 10 25 50 rows					
▼ All	▼ concept	▼ dewey	▼ label 1	▼ label 2	▼ label 3
☆ 33.	http://data.deichman.no/subject/storbritannia_skuespill	942.1	Storbritannia Choose new match	Skuespill	
☆ 34.	http://data.deichman.no/subject/nord-amerika_oppdagelser	970.01	Nord-Amerika Choose new match	Oppdagelser	
☆ 48.	http://data.deichman.no/subject/x2046747500	779.4	Haugesund Choose new match	Fotografier	
☆ 53.	http://data.deichman.no/subject/x2046750000	956.91	Syria Choose new match	Samfunnsforhold	Personlige beretninger
☆ 62.	http://data.deichman.no/subject/x2046743600	941.086	Storbritannia Choose new match	Historie	2000-
☆ 60.	http://data.deichman.no/subject/sverige_o_land_fortellinger	940.6	Sverige Choose new match	Oland	Fortellinger
☆ 86.	http://data.deichman.no/subject/storbritannia_historie_1399_1485_spillefilmer	942.04	Storbritannia Choose new match	Historie	1399-1485
☆ 107.	http://data.deichman.no/subject/israel_utenrikspolittikk_midt-østlen	327.5694	Israel Choose new match	Utenrikspolittikk	Midt-Østlen
☆ 103.	http://data.deichman.no/subject/norge_fiskeripolitikk_produksjon_sosioekonomi	338.3	Norge Choose new match	Fiskeripolitikk	produksjon
☆ 104.	http://data.deichman.no/subject/norge_utenrikspolittikk_israel	327.48105694	Norge Choose new match	Utenrikspolittikk	israel
☆ 105.	http://data.deichman.no/subject/israel_historie_71_e.kr.-	956.94	Israel Choose new match	Historie	71 e.kr.-
☆ 106.	http://data.deichman.no/subject/usa_historie_2001-	973.93	USA Choose new match	Historie	2001-
☆ 107.	http://data.deichman.no/subject/israel_historie_1948-	956.94	Israel Choose new match	Historie	1948-
☆ 110.	http://data.deichman.no/subject/norge_historie_1905-1910_fortellinger	940.1051	Norge Choose new match	Historie	1905-1910
☆ 111.	http://data.deichman.no/subject/storbritannia_historie_1901_1910_fortellinger	942.0823	Storbritannia Choose new match	Historie	1901-1910
☆ 113.	http://data.deichman.no/subject/x2046983500	951.05	Kina Choose new match	Historie	1949-1999
☆ 120.	http://data.deichman.no/subject/norge_historie_1536-1814	948.103	Norge Choose new match	Historie	1536-1814
☆ 133.	http://data.deichman.no/subject/polen_historie_verdenskrigen_1939-1945_fortellinger	940.53438	Polen Choose new match	Historie	Verdenskrigen, 1939-1945
☆ 190.	http://data.deichman.no/subject/jaeren_fortellinger	948.342	Jæren Choose new match	Fortellinger	
☆ 192.	http://data.deichman.no/subject/x2046753100	779.9	Hå Choose new match	Fotografier	
☆ 196.	http://data.deichman.no/subject/usa_historie_1901-1953_fjernsynsserier	973.91	USA Choose new match	Historie	1901-1953
☆ 204.	http://data.deichman.no/subject/tyskland_historie_1945-1999_spillefilmer	943.007	Tyskland Choose new match	Historie	1945-1999

Now create an RDF schema to adjust the output based on existing or custom vocabularies. Magic reconcile expression is: **cell.recon.match.id** (the RDF extension is unfortunately poorly documented)



... and suddenly our book subjects are related to geographical resources, giving us immense more value to our books

```
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
```

```
@prefix subject: <http://data.deichman.no/subject/> .
```

```
@prefix dbo: <http://dbpedia.org/resource/> .
```

```
subject:nord-amerika_oppdagelser rdfs:seeAlso dbo:North_America .
```

```
subject:x2046750000 rdfs:seeAlso dbo:Syria .
```

```
subject:sverige_oland_fortellinger rdfs:seeAlso dbo:Sweden .
```

```
subject:israel_utenrikspolitikk_midt-oesten rdfs:seeAlso dbo:Israel .
```

```
subject:bergen_historie_1884-1905 rdfs:seeAlso dbo:Bergen .
```

```
subject:usa_historie_1953-2001_spillefilmer rdfs:seeAlso dbo:United_States .
```

```
subject:somalia_krigsoperasjoner_spillefilmer rdfs:seeAlso dbo:Somalia .
```

```
subject:bolivia_geografi_og_reiser_dokumentarfilmer rdfs:seeAlso dbo:Bolivia .
```

```
subject:sverige_historie_verdenskrigen_1939-1945 rdfs:seeAlso dbo:Sweden .
```

```
subject:myanmar_historie_dokumentarfilmer rdfs:seeAlso dbo:Burma .
```

...there's Federated SPARQL

```
PREFIX owl: <http://www.w3.org/2002/07/owl#>
PREFIX dbo: <http://dbpedia.org/ontology/>
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>

CONSTRUCT { ?subject owl:sameAs ?dbosubject }
WHERE {
    ?subject a skos:Concept ;
        skos:prefLabel ?label1.

    SERVICE <http://dbpedia.org/sparql> {
        ?dbosubject rdf:type <http://dbpedia.org/ontology/PopulatedPlace> ;
            rdfs:label ?label2 .
    }
    FILTER(langMatches(lang(?label1), "no"))
    FILTER(regex(?label1, ?label2))}
```


The Library Catalogue may be a Black Box

But it is not a Can of Worms

PREFIX foaf: <<http://xmlns.com/foaf/0.1/>>

PREFIX dct: <<http://purl.org/dc/terms/>>

SELECT ?homage WHERE {

:thisPresentation rdfs:seeAlso [

 ?homage dct:title "marc2rdf" ;

 dct:description "Marc2rdf Conversion Toolkit (ruby)" ;

 foaf:homepage <<http://github.com/digibib/marc2rdf>> .

 ?homage dct:title "Google Refine RDF" ;

 dct:description "A refinery and reconciliation toolkit" ;

 foaf:homepage <<http://refine.deri.ie>> .

 ?homage dct:title "Pubby" ;

 rdfs:about <<http://www.w3.org/2001/sw/wiki/Pubby>> ;

 dct:description "An RDF Browser" ;

 foaf:homepage <<http://www4.wiwiss.fu-berlin.de/pubby/>> .

 ?homage dct:title "data.deichman.no API" ;

 dct:description "API against Deichman's RDF store ;

 foaf:homepage <<http://github.com/digibib/data.deichman.no.api>> .

] .

```
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
```

```
PREFIX dct: <http://purl.org/dc/terms/>
```

```
SELECT ?homage WHERE {
```

```
  :thisPresentation rdfs:seeAlso [
```

```
    ?homage dct:title "data.deichman.no" ;
```

```
      dct:description "Blog post on Deichman's RDF-store" ;
```

```
      rdfs:about <http://data.deichman.no> ;
```

```
      foaf:homepage <http://digital.deichman.no/data-deichman-no> .
```

```
    ?homage dct:title "Book Reviews" ;
```

```
      dct:description "Blog post on the Book Reviews Project" ;
```

```
      rdfs:about <http://github.com/digibib/booky> ;
```

```
      foaf:homepage <http://digital.deichman.no/book-reviews> .
```

```
    ?homage dct:title "Active Shelves" ;
```

```
      dct:description "Blog post on the Active Shelves Project" ;
```

```
      rdfs:about <http://github.com/digibib/aktive-hyller> ;
```

```
      foaf:homepage <http://digital.deichman.no/active-shelves> .
```

```
] .
```